

ABSTRACT OF THE DISCLOSURE

A control for a differential including magnetic powder torque transfer clutch for controlling slip across the differential mechanism. The clutch includes a first
5 element driveably connected to a first control shaft, a second element driveably connected to the second output shaft, chamber bounded by the first and second elements, magnetic powder located in the chamber; and an electromagnetic coil producing a magnetic field of variable strength passing through the chamber and magnetic powder and changing a capacity of the clutch to transmit torque between the
10 first and second control shafts as the field strength changes.